



## Complex Light and Optical Forces XIII

Glückstad, Jesper; Andrews, David L. ; Galvez, Enrique J.

*Publication date:*  
2019

*Document Version*  
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

*Citation (APA):*  
Glückstad, J. (Ed.), Andrews, D. L. (Ed.), & Galvez, E. J. (2019). *Complex Light and Optical Forces XIII*. SPIE - International Society for Optical Engineering. Proc. SPIE Vol. 10935

---

### General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.



PROCEEDINGS VOLUME 10935 • NEW

# Complex Light and Optical Forces XIII

Editor(s): [Jesper Glückstad](#); [David L. Andrews](#); [Enrique J. Galvez](#)

For the purchase of this volume in printed format, please visit [Proceedings.com](#)

## Volume Details

Volume Number: 10935  
Estimated Publication Date: 7 March 2019

## Table of Contents

[SHOW ALL ABSTRACTS](#) | [HIDE ALL ABSTRACTS](#)

**Shaping the longitudinal electric field component of light**

Author(s): [F. Maucher](#); [S. Skupin](#); [S. A. Gardiner](#); [I. G. Hughes](#)  
[Show Abstract](#)

**Optical eigenmode description of partially coherent light fields**

Author(s): [Michael Mazilu](#)  
[Show Abstract](#)

**Pendulum beams: a window into the quantum pendulum**

Author(s): [Enrique J. Galvez](#); [Fabio J. Auccapuclla](#); [Kristina L. Wittler](#); [Yingsi Qin](#)  
[Show Abstract](#)

**Angular momentum dynamics of light-driven mass density waves in thin film structures**

Author(s): [Mikko Partanen](#); [Jukka Tulkki](#)  
[Show Abstract](#)

**Dielectric loss induced excess momentum and anomalous spin of light**

Author(s): [Daigo Oue](#)  
[Show Abstract](#)

**SLM phase mask optimization for fiber OAM mode excitation**

Author(s): [Antonio Astorino](#); [Andrew R. Bañas](#); [Karsten Rottwitt](#); [Jesper Glückstad](#)  
[Show Abstract](#)

**Retrieving the OAM spectrum and the spatial distribution of the structured optical fields**

Author(s): [Alessio D'Errico](#); [Filippo Cardano](#)  
[Show Abstract](#)

**Dynamics of vortex propagation in wave fields: from order to disorder and beyond**

Author(s): [Karen Volke-Sepúlveda](#); [Argelia Balbuena Ortega](#); [Sebastián Bucio-Pacheco](#); [Santiago López-Huidobro](#); [Laura Pérez-García](#); [Alejandro V. Arzola](#); [Adrián Huerta-Hernández](#); [Jorge A. Seman](#); [Alexis Domínguez-Castro](#); [Rosario Paredes](#)  
[Show Abstract](#)

**Spectral self-imaging and Gouy rotation echos of propagating vortex pulse arrays**

Author(s): [M. Liebmann](#); [A. Treffer](#); [M. Bock](#); [T. Seiler](#); [J. Jahns](#); [T. Elsässer](#); [R. Grunwald](#)  
[Show Abstract](#)

**Optical spin-orbit interactions in molecular scattering of twisted light**

Author(s): [Kayn A. Forbes](#); [David L. Andrews](#)  
[Show Abstract](#)

**Laquerre-Gaussian mode sorter**

Author(s): [Nicolas K. Fontaine](#); [Roland Ryf](#); [Haoshuo Chen](#); [David T. Neilson](#); [Kwangwoong Kim](#); [Joel Carpenter](#)  
[Show Abstract](#)

**Deformation of single cells - optical two-beam traps and more**

Author(s): [Kirstine Sandager Nielsen](#); [Tony B. Rungling](#); [Morten Hanefeld Dziegiel](#); [Rodolphe Marie](#); [Kirstine Berg-Sørensen](#)  
[Show Abstract](#)

**Optical control of strongly absorbing nanoparticles and their potential for photothermal treatment**

Author(s): [Akbar Samadi](#); [Liselotte Jauffred](#); [Henrik Klingberg](#); [Poul Martin Bendix](#); [Lene B. Oddershede](#)  
[Show Abstract](#)

**Optical eigenmode description of single-photon light-matter interactions**

Author(s): [Kyle Ballantine](#); [Michael Mazilu](#)  
[Show Abstract](#)

**Multi-site optical recording of neuronal activity with complex light patterns**

Author(s): [Michael Lawrence Castañares](#); [Vincent R. Daria](#)  
[Show Abstract](#)

**Plasmonic annular aperture arrays for nanoparticle manipulation**

Author(s): [Domna G. Kotsifaki](#); [Xue Han](#); [Viet Giang Truong](#); [Síle Nic Chormaic](#)  
[Show Abstract](#)

**Nonlinear optical eigenmodes: perturbative approach**

Author(s): [Graeme S. Docherty-Walthew](#); [Michael Mazilu](#)  
[Show Abstract](#)

**Spin torque on birefringent "o" and "e" axes in regular rhombohedral calcite crystals**

Author(s): [Catherine M. Herne](#); [Natalie A. Cartwright](#); [Johanna R. Levey](#)  
[Show Abstract](#)

**Twisted light transfers OAM and SAM to electrons in a GaAs photocathode**

Author(s): [Laura A. Sordillo](#); [Sandra Mamani](#); [Mikhail Sharonov](#); [Robert R. Alfano](#)  
[Show Abstract](#)